

**REMARKS**

By this amendment, claims 43, 46, 49, 50, 51, 53, and 57 have been amended, claims 48 and 55-56 have been canceled, claims 1-42 remain canceled, claims 44, 45, 47, 52, and 54 remain as previously presented, and new claims 58-66 have been added. Hence, claims 43-47 and 57-66 remain currently pending.

1. **Response to Claim Rejections under 35 U.S.C. § 112**

Claims 48-50 and 55-57 are rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. The Office Action states that there is no support in the filed specification regarding “a second list of elements, wherein each element of the second list of elements describes a level of support the shell has for each wireless service” and “position of the value in the list reflects a service identifier of the corresponding wireless service.” (Office Action, 09/04/08, p. 2).

By this amendment, claims 48 and 55-56 have been canceled, and remaining claims 49-50 and 57 have been amended to depend from earlier claims not rejected under the instant 35 U.S.C. § 112 rejection. It is thus respectfully submitted that the instant rejection of claims 48-50 and 55-57 under 35 U.S.C. § 112 has been rendered moot.

2. **Response to Claim Rejections under 35 U.S.C. § 103**

Claims 43-45 and 51-52 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over U.S. Patent No. 5,465,401 (Thompson) in view of U.S. Patent No. 6,961,587 (Vilppula, et al.) and U.S. Patent No. 5,418,837 (Johansson et al.). Claims 46-50 and 53-57 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over Thompson) in view of Vilppula, Johansson, and U.S. Patent No. 4,979,098 (Baum).

Thompson is directed to a communication system that has a removable application module that allows a cellular telephone to operate in various functional modes, such as a conventional cell phone, a cordless telephone, or a wireless broadcasting system (Thompson, Col. 3:55-65). In Thompson, a selected application module may be inserted into the communication device to provide additional frequency capability as additional spectra are

made available, for example, one module may provide communication in the 900 MHz range, while another may use the cordless phone range. (Thompson, Col. 16:9-20). Thompson states that both applications and communications functions are provided on the applications modules. (Thompson, Col. 11:17-19). The application modules “may be used to convert communication devices into an operating mechanism for a wide variety of systems and functions which extend beyond the normal telephone and radio communication networks” (Thompson, Col. 15:14-18). In Thompson, both the communications support and the applications that may require this support are provided on an application module that is placed in the communication device. As stated in a previous Office Action, Thompson does not disclose a device that has operating software containing information concerning wireless communication and call-processing software that communicates with the operating system software in response to coupling together of the cartridge and the shell (01/30/08 Office Action, p. 4); and as stated in the current pending Office Action, Thompson does not expressly disclose a correlated list generated through a registration process in which each application registers for at least one wireless service, and communicating upon coupling of the cartridge with the shell. (09/04/08 Office Action, p. 4).

The second cited reference, Vilpula is directed to storage media comprising a smart card for a mobile communications terminal containing a plurality of application programs providing various services. In Vilpula, a mobile terminal contains software and interfaces that include programs that receive input and control telecommunication with networks. (Vilpula, Col. 5:37-41). The SIM card may contain applications stored in a file structure. As described in Vilpula, different profiles can be configured so that certain applications are accessible in certain profiles. The smart card is changed from one profile to another by changing application identification and selection data in a directory of the applications. Vilpula only teaches a system in which cellular based applications on the SIM card may have access to the telecommunications network supported by the mobile device. (Vilpula, Col. 5:41-50).

The third cited reference, Johansson discloses an apparatus for upgrading a mobile telephone through a software upgrading module card adapted to be temporarily connected to

the mobile telephone by insertion into the module reader. Upgraded software is stored and transmitted into the main memory of the mobile telephone by upgrading means.

By this amendment, independent claims 43 and 51 have been amended. Claim 43 has been amended to recite a composite wireless device having:

- a shell having non-wireless hardware components, memory, and system software, wherein the system software includes an operating system, software drivers, and one or more software applications, and wherein the shell memory stores

- a service array including one or more elements, each element representing a wireless service and having a value specifying a level of support by the shell for the respective wireless service, and

- a registration list including registration information for the one or more software applications, the registration information containing an identifier for each software application correlated with a respective identifier of a wireless service requested by the respective software application; and

- a cartridge removably coupled to the shell through an interface and having wireless hardware components and call-processing software to communicate with the system software and to access a wireless communication service supported by the cartridge upon coupling of the cartridge with the shell, wherein the call-processing software informs the shell which wireless services it supports as well as the shell support requirements of the supported wireless services; wherein

- the system software of the shell uses the service array to determine whether the shell is able to meet the shell support requirements of the cartridge supported wireless services, and then uses the registration information to determine whether any of the wireless services supported by the cartridge are requested by any software application through the registration list.

Thus, new claim 43 essentially claims a wireless device that has a shell with non-wireless components, a cartridge with wireless components, and an interface, wherein the shell stores a service array having elements representing a wireless service a level of support by the shell for the respective wireless service and a registration list including registration information for the one or more software applications, and that specifies a wireless service requested by the respective software application. Claim 43 further recites a cartridge that includes call-processing software to communicate with the shell operating system and to access a supported wireless communication service upon coupling with the shell, and that informs the shell which wireless services it supports as well as the shell support requirements of the supported wireless services. Moreover, amended claim 43 recites that the shell system

software uses the service array to determine whether the shell is able to meet the shell support requirements of the cartridge supported wireless services, and then uses the registration information to determine whether any of the wireless services supported by the cartridge are requested by any software application through the registration list.

It is respectfully submitted, that none of the present cited references, either together or separately, teach or suggest the elements of new claim 43. That is, none of the cited references, either together or separately, teach or suggest a wireless device that has a shell, cartridge and interface, wherein the shell maintains a registration list and a service list, the cartridge includes call-processing software to communicate with said operating system software, and the system software of the shell uses the service array to determine whether the shell is able to meet the shell support requirements of the cartridge supported wireless services, and then uses the registration information to determine whether any of the wireless services supported by the cartridge are requested by any software application through the registration list.

Thompson only teaches a system a telephone system in which a removable application module allows the phone to operate in various functional modes, such as a conventional cell phone, or cordless telephone. Both applications and communications functions are provided on application modules that are inserted into the phone. Thus, in Thompson, both the communications support and the applications that may require this support are provided on an application module that is placed in the communication device. Thompson does not teach or suggest a system in which a shell component contains non-wireless components with applications, and a cartridge contains wireless components with wireless service support, and in which the shell stores service array and registration information and uses these to determine whether wireless services provided by an inserted cartridge have been requested from any of the applications.

Vilpulla does not add any teaching or suggestion that would render claim 43 obvious under 35 U.S.C. 103. Vilpulla only teaches a SIM card system in which cell based applications on a SIM card may have access to communications services provided by the host phone. Vilpulla does not teach or suggest a system in which applications in a shell

component utilize wireless services supported by a cartridge after confirmation of supported service through use of a service array and registration list, as claimed in amended claim 1.

Neither Thompson nor Vilpulla, either alone or in combination, teach or suggest the elements of amended claim 43. Moreover, it is not apparent how these references could be combined. Thompson teaches a system in which both applications and communication services are provided on a module, and Vilpulla teaches a system in which applications on a SIM card use communication services on a host phone. The two are essentially directed to two entirely different application modalities and it would not make sense to one of ordinary skill in the art to combine them. Furthermore, even when combined, they would only serve to teach a system in which an application on a card or module would utilize communication capabilities in a host device. They do not together teach or suggest a communication device having a shell component containing non-wireless components with applications, and a cartridge contains wireless components with wireless service support, and in which the shell stores service array and registration information and uses these to determine whether wireless services provided by an inserted cartridge have been requested from any of the applications. Therefore, it is respectfully submitted that claim 43 is not rendered obvious by the cited combination.

Claims 44-47 and 49-50 depend from claim 43, and therefore, for the reasons provided above with respect to claim 43, it is submitted that these claims are patentable over the cited references.

Claim 51 is a method claim that has been amended to include elements analogous to those of claim 43. Therefore, for these same reasons, it is respectfully submitted that this claim, and its dependant claims 52-54 and 57 are patentable under 35 U.S.C. 103 in light of the present cited combination of references.

New claims 58-66 are device claims that recites elements similar to the apparatus elements of claim 43. Therefore, for the reasons presented above with respect to claim 43, it is respectfully submitted that claims 58-66 are patentable under 35 U.S.C. 103 over the cited combinations.

3. Conclusion

Applicants respectfully request that the above-described amendments be made part of the official record in the present application, and submit that support for the claim amendments and new claims is present in the specification, claims, and drawings as originally filed, and that no new matter has been added.

If there are any shortages, the Examiner is authorized to charge our Deposit Account Number 503616.

Respectfully submitted,

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Dated: March 4, 2009

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